

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of: **Arnold I. Levinson *et al.***

Serial No.: **10/518,701**

Group Art Unit: **1644**

Filing Date: **September 1, 2005**

Examiner: **M. E. Szperka**

Confirmation No.: **5645**

For: **VACCINES FOR SUPPRESSING IgE-MEDIATED ALLERGIC DISEASE AND METHODS FOR USING THE SAME**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**DECLARATION OF DR. DAVID B. WEINER**

I, David B. Weiner, do hereby declare as follows:

1. I am a co-inventor of the subject matter claimed in the above-identified U.S. Patent Application.
  
2. I am a Professor at the University of Pennsylvania School of Medicine and I have an appointment in the Department of Pathology & Laboratory Medicine.

3. The following is a list of Ig leader sequences from IgE variable, IgA constant, IgA, variable1, IgA variable 2, IgA variable 3, IgG constant, IgM variable, and IgM VH1.:

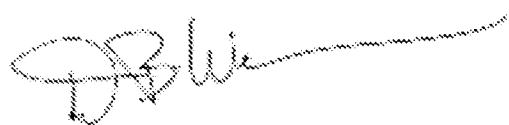
IgE variable (IgELS)	M D W T W <b>I</b> L F L V A A A T <b>R</b> V H S
IgA constant	M D W T W <b>S</b> I L F L V A A A T <b>G</b> V H S
IgA variable1	M D W T W <b>S</b> I L F L V A A A T <b>G</b> A H S
IgA variable2	M D W T W <b>R</b> I L F L V A A A T <b>S</b> A H S
IgA variable3	M D W T W <b>R</b> I L F L V A A A T <b>G</b> A H S
IgG constant	M D W T W <b>R</b> I L F L V A A A T <b>S</b> A H S
IgM variable	M D W T W <b>R</b> I L F L V A A A T <b>S</b> A H S
IgM VH1	M D W T W <b>R</b> I L F L V A A A T <b>G</b> A H S

The following table presents the percent similarity between the IgE leader sequence and the other listed leader sequences.

	IgA constant	IgA variable1	IgA variable2	IgA variable3	IgG constant	IgM variable	IgM VH1
IgELS	94.4%	88.9%	88.9%	88.9%	88.9%	88.9%	88.9%

The alignments show that IgE leader sequence is not the same as the leader sequences from the different isotypes.

4. I declare that all statements made herein are of our own knowledge true and statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



MARCH 20, 2009

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David B. Weiner, Ph.D.

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Date

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